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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/788,268	02/16/2001	Jonathan W. Jarvik	2087-010262	5282
28289	7590	03/29/2005	EXAMINER	
WEBB ZIESENHEIM LOGSDON ORKIN & HANSON, P.C.			MARSCHEL, ARDIN H	
700 KOPPERS BUILDING			ART UNIT	
436 SEVENTH AVENUE			PAPER NUMBER	
PITTSBURGH, PA 15219			1631	

DATE MAILED: 03/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

This application is in condition for allowance except for the following formal matters:

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR §§1.821(a)(1) and (a)(2). See, for example, sequences in paragraph [0035]. However, this application fails to comply with the requirements of 37 CFR §§ 1.821 through 1.825 because amending, filed 7/13/01, contains paragraph indications for replacing paragraphs with sequences therein which are not corresponding paragraphs as filed with said sequences. For example, paragraph [0035], as filed, contains two sequences which fall under these sequence rules. No replacement paragraph [0035] has been submitted. Instead the amendment filed 7/13/01, submitted a replacement paragraph [0034] which was entered to replace [0034]. This [0034] replacement did not result in inserting SEQ ID Nos; with the sequences in paragraph [0035]. Thus paragraph [0035] still results in sequence rule non-compliance. Similar apparently mistaken paragraph numbers utilized in the amendment, filed 7/13/01, resulted in remaining sequence rule non-compliance in paragraphs [0042] and [0051] as filed. Due to the replacement of misnumbered paragraphs, the specification now contains substantial duplicates etc. In order to prevent a very confused issued specification, the following requirement is set forth:

A substitute specification without requiring substitute abstract or claims is required pursuant to 37 CFR 1.125(a) because of the confused amending as noted above.

A substitute specification must not contain new matter. The substitute specification must be submitted with markings showing all the changes relative to the immediate prior version of the specification of record. The text of any added subject matter must be shown by underlining the added text. The text of any deleted matter must be shown by strike-through except that double brackets placed before and after the deleted characters may be used to show deletion of five or fewer consecutive characters. The text of any deleted subject matter must be shown by being placed within double brackets if strike-through cannot be easily perceived. An accompanying clean version (without markings) and a statement that the substitute specification contains no new matter must also be supplied. Numbering the paragraphs of the specification of record is not considered a change that must be shown.

Failure to respond to this requirement may result in abandonment of the instant application or a notice of a failure to fully respond to this Office action.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Claims 92-102 are allowable.

Art Unit: 1631

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ardin Marschel, Ph.D., AU 1631 Supervisory Patent Examiner, whose telephone number is (571) 272-0718. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (571) 272-0549.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 22, 2005

Ardin H. Marschel 3/22/05
ARDIN H. MARSCHEL
SUPERVISORY EXAMINER